

PTO/SB/08b(08-03)

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete If Known			
		Application Number	10/743,722		
		Filing Date	December 24, 2003		
		First Named Inventor	DUMITRAS et al		
		Art Unit	2614		
		Examiner Name	Not assigned		
Sheet	1	of	2	Attorney Docket Number	2777/3276

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/DNW/		Jungwoo Lee and Bradley W. Dickinson, "Temporally Adaptive Motion Interpolation Exploiting Temporal Masking in Visual Perception," <i>IEEE Transactions on Image Processing</i> , vol. 3, No. 5, pp. 513-526, September 1994.	
/DNW/		Austin Lan et al, "Scene-context-dependent reference-frame placement for MPEG video coding", <i>IEEE Transactions on Circuits and Systems for Video Systems for Video Technology</i> , vol. 9, no. 3, April 1999	
/DNW/		Jungwoo Lee et al., "Rate-distortion optimized frame type selection for MPEG encoding," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 7, no. 3, pp. 501-510, June 1997.	
/DNW/		Tamer Shanableh et al., "The importance of the bi-directionally predicted pictures in video streaming," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 11, no. 3, pp. 402-414, March 2001.	
/DNW/		W.A.C. Fernando et al., "Scene adaptive video encoding for MPEG and H.263+ video," <i>IEEE Trans. on Consumer Electronics</i> , vol. 47, no. 4, pp. 76-769, November 2001.	
/DNW/		Xiaodong Gu et al, "Implementing dynamic GOP in video encoding," in <i>IEEE International Conference on Multimedia and Expo (ICME)</i> , Baltimore 2003, vol. 1, pp. 349-352.	
/DNW/		Chung-Lin Huang et al, "A robust scene-change detection method for video segmentation", <i>IEEE Transaction on Circuits and Systems for Video Technology</i> , vol. 11, no. 12, December 2001	
/DNW/		Gregory J. Conklin et al, "A comparison of temporal scalability techniques," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 9, no. 6, pp. 909-919, September 1999.	
/DNW/		H.C. Liu et al., "Automatic determination of scene changes in MPEG compressed video," in <i>Proc. IEEE Symp. Circuits and Systems</i> , Seattle, 1995, vol. 1, pp. 764-767.	
/DNW/		J. Lee et al., "Scene-adaptive motion interpolation structures based on temporal masking in human visual perception," in <i>Proc. SPIE Conference on Visual Comm. and Image Processing</i> , Cambridge, 1993, pp. 499-510.	

Examiner Signature	/David Werner/	Date Considered	05/10/2007
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/DNW/		A. Hanjalic, "Shot-boundary detection: Unraveled and resolved?," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 12, no. 2, pp. 90-105, February 2002.	
/DNW/		T. Vlachos, "Cut detection in video sequences using phase correlation," <i>IEEE Signal Processing Letters</i> , vol. 7, no. 7, pp. 173-175, July 2000.	
/DNW/		U. Gargi et al., "Performance characterization of video shot change detection methods," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 10, no. 1, pp. 1-13, February 2000.	
/DNW/		R.M. Ford et al., "Metrics for shot boundary detection in video sequences," <i>Multimedia Systems</i> , vol. 8, pp. 37-46, 2000.	
/DNW/		B-L Yeo et al., "Rapid scene analysis on compressed video," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 5, no. 6, pp. 533-544, December 1995.	
/DNW/		H.J. Zhang et al., "Video parsing and browsing under compressed data," <i>Multimedia Tools and Applications</i> , vol. 1, no. 1, pp. 89-111, March 1995.	
/DNW/		Z. Cernekova et al., "Shot detection in video sequences using entropy-based metrics," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 3, pp. 421-424.	
/DNW/		B. Shahraray, "Scene change detection and content-based sampling of video sequences," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 2-13.	
/DNW/		J. Bescos et al., "Multidimensional comparison of shot detection algorithms," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 2, pp. 401-403.	
/DNW/		J. Meng et al., "Scene change detection in a MPEG compressed video sequence," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 14-25.	

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		C-L. Huang and B-Y Liao, "A robust scene-change detection method for video segmentation," <i>IEEE Signal Processing Letters</i> , vol. 7, no. 7, pp. 173-175, July 2000.	
		T. Vlachos, "Cut detection in video sequences using phase correlation," <i>IEEE Signal Processing Letters</i> , vol. 7, no. 7, pp. 173-175, July 2000.	
		U. Gargi, R. Kasturi, and S.H. Strayer, "Performance characterization of video shot change detection methods," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 10, no. 1, pp. 1-13, February 2000.	
		R.M. Ford, C. Robson, D. Temple, and M. Genach, "Metrics for shot boundary detection in video sequences," <i>Multimedia Systems</i> , vol. 8, pp. 37-46, 2000.	
		B-L Yeo and B. Liu, "Rapid Scene analysis on compressed video," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 5, no. 6, pp. 533-544, December 1995.	
		H.J. Zhang, C.Y. Low, and S.W. Smollar, "Video parsing and browsing using compressed data," <i>Multi-media Tools and Applications</i> , vol. 1, no. 1, pp. 89-111, March 1995.	
		H.C. Liu and G. Zick, "Automatic determination of scene changes in MPEG compressed video," in <i>Proc. IEEE Symp. Circuits and Systems</i> , Seattle, 1995, vol. 1, pp. 764-767.	
		Z. Cernikova, C. Nikou, and I. Pitas, "Shot detection in video sequences using entropy-based metrics," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 3, pp. 421-424.	
		B. Shahraray, "Scene change detection and content-based sampling of video sequences," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 2-13.	

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Application Number	10/743,722
Filing Date	December 24, 2003
First Named Inventor	DUMITRAS et al.
Art Unit	2614
Examiner Name	Not assigned
Attorney Docket Number	2777/3276

NON PATENT LITERATURE DOCUMENTS

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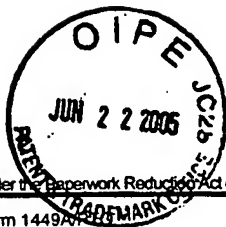
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**INFORMATION DISCLOSURE
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Sheet 1 of 1

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Application Number	10/743,722
Filing Date	12/24/2003
First Named Inventor	Adriana DUMITRAS
Art Unit	2614
Examiner Name	to be assigned
Attorney Docket Number	13316/3276

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/DNW/	1	US- 5,548,346 A	08/20/1996	Mimura <i>et al.</i>	
/DNW/	2	US- 5,825,421 A	10/20/1998	Tan	
/DNW/	3	US- 6,333,949 B1	12/25/2001	Nakagawa <i>et al.</i>	
/DNW/	4	US- 6,480,670 B1	11/12/2002	Hatano <i>et al.</i>	
/DNW/	5	US- 6,600,872 B1	07/29/2003	Yamamoto <i>et al.</i>	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
/DNW/	6	EP 0 658 057 A2	06/14/1995	Sharp Kabushiki Kaisha		
/DNW/	7	DE 197 37 835 A1	03/04/1999	Siemens AG		Abs.
/DNW/	8	WO 00/67486 A1	11/09/2000	Koninklijke Philips Electronics N.V.		

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/DNW/	9	Accame, M. <i>et al.</i> , "AN INTEGRATED APPROACH TO BLOCK BASED MOTION ESTIMATION FOR VIDEO CODING," IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, IEEE INC., New York, US, vol. 44, no. 1, pp. 52-61, XP000779250, ISSN: 0098-3063, see paragraph '2.A.A', February 1998
/DNW/	10	Mietens, S. <i>et al.</i> , "New scalable three-stage motion estimation technique for mobile MPEG encoding," Multimedia and Expo, 2002, ICME '02. Proceedings. 2002 IEEE International Conference on Lausanne, Switzerland, 26-29 Aug. 2002, Piscataway, NJ, USA, IEEE, US, vol. 1, pages 685-688, XP010604461, ISBN: 0-7803-7304-9, paragraph '0003', August 26, 2002

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/DNW/	1	US 2002/0131493 A1	09-19-2002	HIDEKI, F. <i>et al.</i>	
/DNW/	2	US 2003/0169817 A1	09-11-2003	SONG, B. <i>et al.</i>	
/DNW/	3	US 2004/0047418 A1	03-11-2004	TOURAPIS, A. <i>et al.</i>	

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/DNW/	4	EP 0762778 A	03-12-1997	SONY CORPORATION	
/DNW/	5	WO 2004/010709 A	01-29-2004	KONINKLIJKE, PHILIPS ELECTRONICS N.V. <i>et al.</i>	

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/DNW/	6	MITCHELL, J. L. <i>et al.</i> , "MPEG video compression standard," 1996, p. 79, Chapman and Hall, XP002367660		
/DNW/	7	OHM, J. R., "Digitale Bildcodierung," 1995, pp. 127-130, Springer-Verlag, Heidelberg, XP002350026		✓
/DNW/	8	YUEN, M. <i>et al.</i> , "A survey of hybrid MC/DPCM/DCT video coding distortions," <i>Signal Processing</i> , 11-30-1998, pp. 247-278, vol. 70, no. 3, Elsevier Science Publishers B.V., Amsterdam, NL, XP004144969, ISSN: 0165-1684		
/DNW/	9	HOANG, D.T. <i>et al.</i> , "Efficient algorithms for MPEG video compression," 2002, p. 141, paragraph 7.2.2, JOHN WILEY & SONS, XP002367661		
/DNW/	10	RICHARDSON, I. E. G., "H.264 and MPEG-4 VIDEO COMPRESSION, video coding for next-generation multimedia," 2003, pp. 175, 176 & 210, WILEY, XP002367662		
/DNW/	11	LAN, A. <i>et al.</i> , "Scene-context-dependent reference-frame placement for MPEG video coding," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , April 1999, pp. 478-489, Vol. 9, No. 3, New York, US, XP000824572, ISSN: 1051-8215		

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